Amend the ABSTRACT OF THE DISCLOSURE at page 18, line 1 continuing though line 11, as follows:

~~NON-CHROMATE METAL SURFACE ETCHING SOLUTIONS~~

CHROMATE-FREE METHOD FOR

ETCHING OF TITANIUM

ABSTRACT OF THE DISCLOSURE

Non-chromate solutions for treating and/or etching metals, particularly, aluminum, aluminum alloys, steel and titanium, and method of applying same wherein the solutions include either a titanate or titanium dioxide as a "drop-in replacement" for a chromium-containing compound in a metal surface etching solution that otherwise would contain chromium.